

FIG. 1

200

FIRST PROCESS MAKES FIRST FUNCTION CALL TO FUNCTION DEFINED WITHIN FIRST APPLICATION PROGRAMMING INTERFACE DEFINITION

201

DETECT THE FIRST FUNCTION CALL MADE BY THE FIRST PROCESS IN THE FIRST COMPUTING ENVIRONMENT

202

BASED ON THE FIRST FUNCTION CALL, GENERATE AN ENCAPSULATED FUNCTION CALL FOR TRANSFER FROM THE FIRST COMPUTING ENVIRONMENT TO THE SECOND COMPUTING ENVIRONMENT, THE ENCAPSULATED FUNCTION CALL CONTAINING A MAPPING OF FIRST FUNCTION CALL PARAMETER VALUES USABLE IN THE FIRST COMPUTING ENVIRONMENT TO FIRST META PARAMETER VALUES

203

TRANSFER THE ENCAPSULATED FUNCTION CALL CONTAINING THE FIRST META PARAMETER VALUES FROM THE FIRST COMPUTING ENVIRONMENT TO THE SECOND COMPUTING ENVIRONMENT

204

RECEIVE AN ENCAPSULATED RESPONSE FROM THE SECOND COMPUTING ENVIRONMENT, THE ENCAPSULATED RESPONSE CONTAINING SECOND META PARAMETER VALUES PRODUCED IN THE SECOND COMPUTING ENVIRONMENT FROM PERFORMANCE OF AT LEAST ONE SECOND FUNCTION CALL IN THE SECOND APPLICATION PROGRAMMING INTERFACE THAT CORRESPONDS TO THE FIRST FUNCTION CALL DETECTED IN THE FIRST COMPUTING ENVIRONMENT

205

PARSE THE ENCAPSULATED RESPONSE TO MAP THE SECOND META PARAMETER VALUES BACK TO THE FIRST FUNCTION CALL PARAMETERS USABLE BY THE FIRST PROCESS IN THE FIRST COMPUTING ENVIRONMENT

206

FIRST PROCESS (E.G., JAVA-BASED SERVER) ACCESSES THE FIRST FUNCTION CALL PARAMETERS RETURNED FROM THE ENCAPSULATED RESPONSE

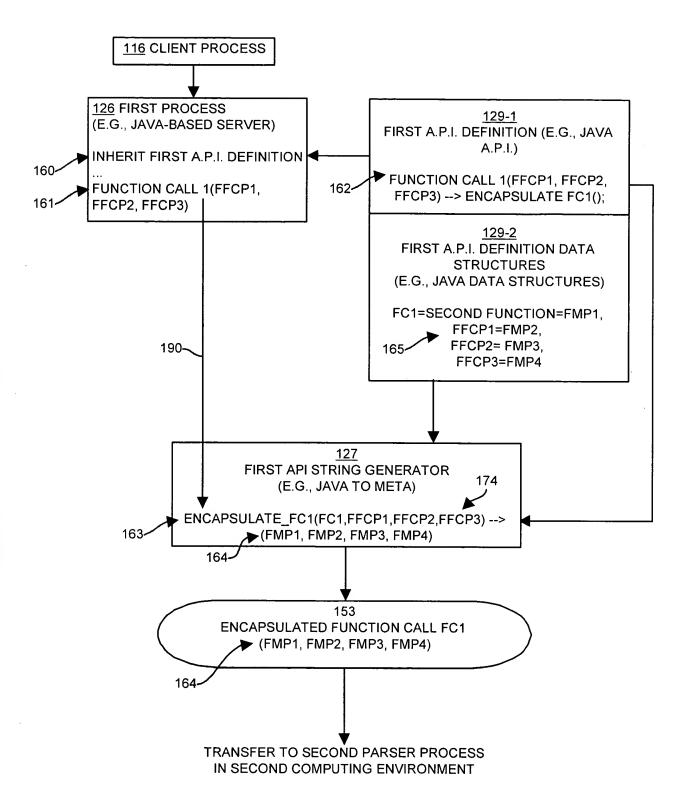


FIG. 3

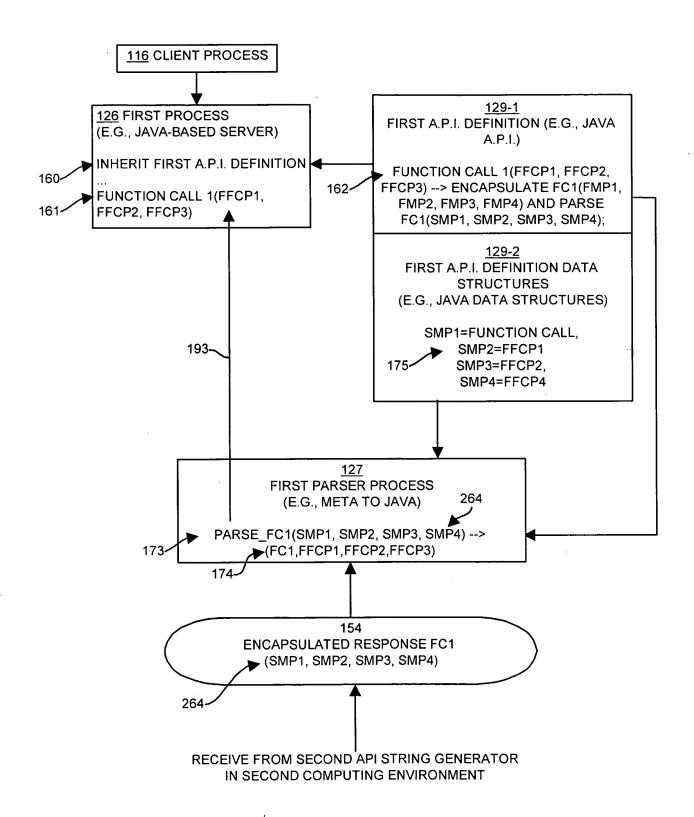


FIG. 4

250 RECEIVING AN ENCAPSULATED FUNCTION CALL CONTAINING FIRST MADE PARAMETERS FROM THE FIRST COMPUTING ENVIRONMENT 251 PARSE (E.G., USING THE SECOND PARSER PROCESS) THE ENCAPSULATED FUNCTION CALL TO MAP THE FIRST META PARAMETER VALUES INTO SECOND FUNCTION CALL PARAMETER VALUES DEFINED WITHIN A SECOND FUNCTION DEFINITION THE SECOND APPLICATION PROGRAMMING INTERFACE DEFINITION FOR USE BY THE SECOND **PROCESS** 252 INVOKE OPERATION OF THE SECOND FUNCTION ASSOCIATED WITH THE SECOND PROCESS BY PASSING THE SECOND FUNCTION THE SECOND **FUNCTION CALL PARAMETER VALUES** 253 RECEIVED SECOND FUNCTION CALL PARAMETER VALUES AS OUTPUT FROM INVOCATION OF THE SECOND FUNCTION 254 SECOND APPLICATION PROGRAMMING INTERFACE STRING GENERATOR MAPS THE SECOND FUNCTION CALL PARAMETERS INTO SECOND META **PARAMETERS** 255 PLACED SECOND META PARAMETERS INTO ENCAPSULATED RESPONSE 256 TRANSFER THE ENCAPSULATED RESPONSE BACK TO THE FIRST PARSER PROCESS OPERATING WITHIN THE FIRST COMPUTING

ENVIRONMENT

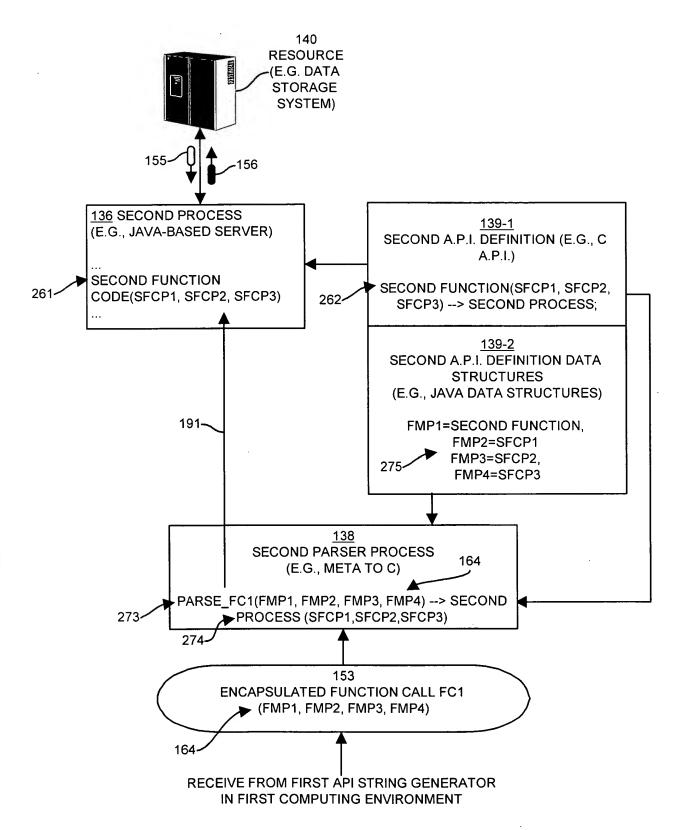


FIG. 6

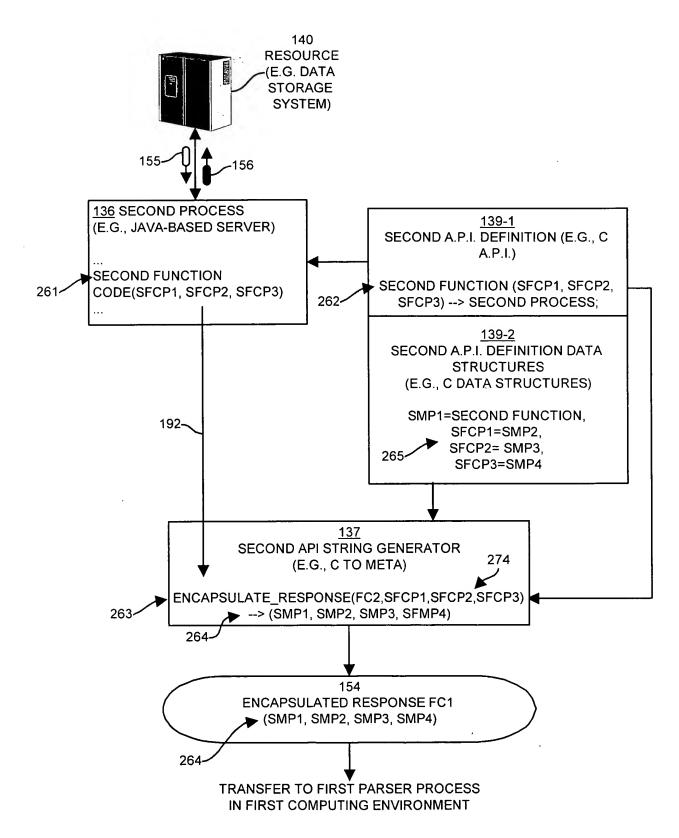


FIG. 7

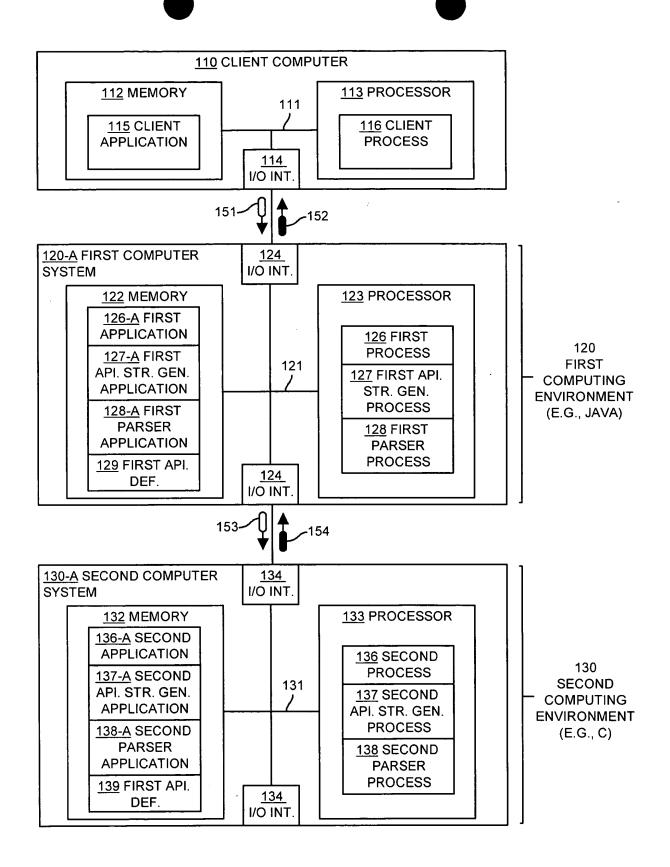


FIG. 8

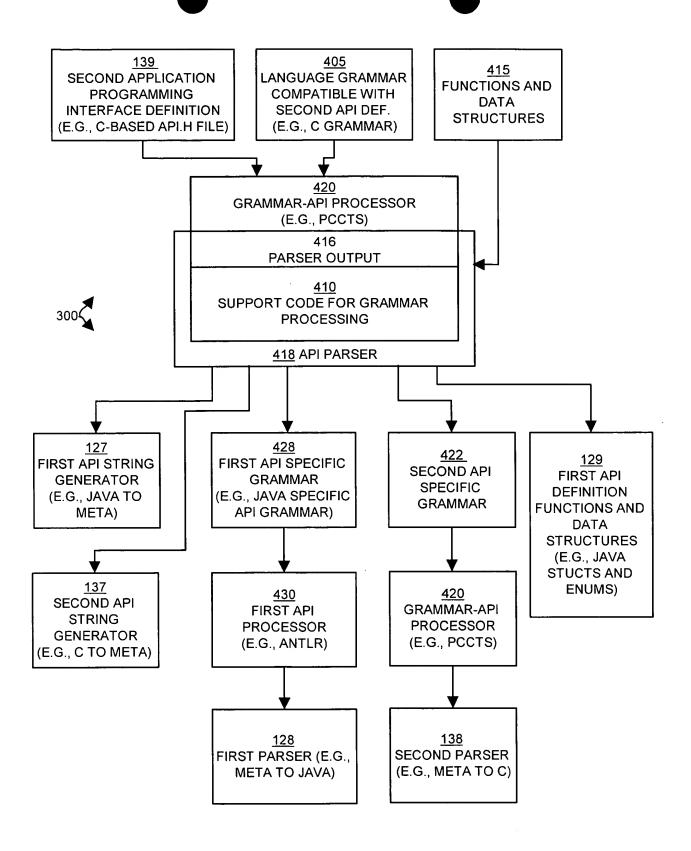


FIG. 9

450

ANALYZE THE SECOND APPLICATION PROGRAMMING INTERFACE
DEFINITION ASSOCIATED WITH THE SECOND COMPUTING
ENVIRONMENT TO DISCOVER SECOND FUNCTION DEFINITIONS IN THE
SECOND APPLICATION PROGRAMMING INTERFACE DEFINITION

451

BASED ON THE ANALYSIS, AUTOMATICALLY GENERATE, FOR EACH SECOND FUNCTION DEFINITION DISCOVERED IN THE SECOND APPLICATION PROGRAMMING INTERFACE DEFINITION, THE FOLLOWING COMPONENTS:

452

A FIRST STRING GENERATOR CAPABLE OF RECEIVING A FIRST FUNCTION CALL IN THE FIRST COMPUTING ENVIRONMENT FROM A FIRST PROCESS AND ENCAPSULATING THE FIRST FUNCTION CALL INTO AN ENCAPSULATED FUNCTION CALL

453

A SECOND PARSER CAPABLE OF RECEIVING THE ENCAPSULATED FUNCTION CALL AND PARSING THE ENCAPSULATED FUNCTION CALL TO INVOKE A CORRESPONDING SECOND FUNCTION IN A SECOND PROCESS DEFINED IN THE SECOND APPLICATION PROGRAMMING INTERFACE DEFINITION FOR OPERATION WITHIN THE SECOND COMPUTING ENVIRONMENT

454

A SECOND STRING GENERATOR CAPABLE OF RECEIVING AN OUTPUT FROM THE SECOND FUNCTION OF THE SECOND PROCESS IN THE SECOND COMPUTING ENVIRONMENT AND ENCAPSULATING THE OUTPUT INTO IN ENCAPSULATED RESPONSE

455

A FIRST PARSER CAPABLE OF RECEIVING THE ENCAPSULATED RESPONSE AND PARSING THE ENCAPSULATED RESPONSE TO RETURN THE SECOND FUNCTION OUTPUT TO THE FIRST FUNCTION IN THE FIRST PROCESS OPERATING IN THE FIRST COMPUTING ENVIRONMENT

460

PRODUCE A SET OF FIRST APPLICATION PROGRAMMING INTERFACE DEFINITION DATA STRUCTURES THAT DEFINE FIRST FUNCTION CALL PARAMETERS THAT CORRESPOND TO SECOND FUNCTION CALL PARAMETERS ASSOCIATED WITH A SECOND FUNCTION CALL DEFINITION

461

PRODUCE A SET OF FIRST META PARAMETERS THAT CAN REPRESENT THE FIRST APPLICATION PROGRAMMING INTERFACE DEFINITION DATA STRUCTURES

462

PRODUCE A FIRST STRING GENERATOR FUNCTION THAT CAN RECEIVE, FROM A FIRST PROCESS OPERATING IN A FIRST COMPUTING ENVIRONMENT, A FIRST FUNCTION CALL THAT CORRESPONDS TO THE SECOND FUNCTION CALL DEFINITION

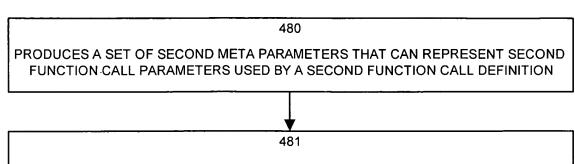
FIG. 11

470

RECEIVE A SECOND APPLICATION PROGRAMMING INTERFACE (API)
SPECIFIC GRAMMAR

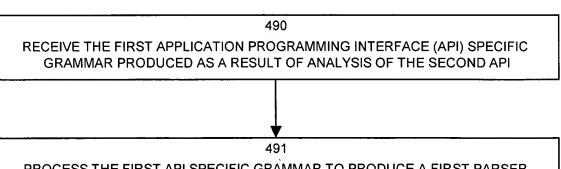
471

PROCESS THE SECOND API SPECIFIC GRAMMAR TO PRODUCE A SECOND PARSER BY CONVERTING SECOND FUNCTION CALL DEFINITIONS WITHIN THE SECOND API SPECIFIC GRAMMAR INTO PARSER ROUTINES THAT CAN ACCEPT AND PARSE FIRST META PARAMETERS WITHIN ENCAPSULATED FUNCTION CALLS TO PROVIDE SECOND FUNCTION CALL PARAMETERS TO SECOND FUNCTION CALLS ASSOCIATED WITH A SECOND PROCESS THAT CAN OPERATE IN A SECOND COMPUTING ENVIRONMENT



PRODUCE SECOND STRING GENERATOR FUNCTION THAT CAN RECEIVE, FROM A SECOND PROCESS THAT OPERATES IN A SECOND COMPUTING ENVIRONMENT, SECOND FUNCTION CALL PARAMETERS PRODUCED AS OUTPUT FROM THE SECOND PROCESS BY PERFORMING THE SECOND FUNCTION CALL

FIG. 13



PROCESS THE FIRST API SPECIFIC GRAMMAR TO PRODUCE A FIRST PARSER PROCESS BY CONVERTING FIRST FUNCTION CALL DEFINITIONS WITHIN THE FIRST API SPECIFIC GRAMMAR INTO PARSER ROUTINES (E.G., JAVA BASED) THAT CAN ACCEPT AND PARSE SECOND META PARAMETERS WITHIN ENCAPSULATED RESPONSES TO PROVIDE FIRST FUNCTION CALL PARAMETERS WHICH ARE RETURNED BACK TO A FIRST FUNCTION CALL ASSOCIATED WITH FIRST PROCESS OPERATING IN THE FIRST COMPUTING ENVIRONMENT